

ECOLOGY AND ENVIRONMENT, INC.

REGION VI

MEMORANDUM

TO: Dave Peters, Chief
Hazardous Waste Section
EPA, Region VI

FROM: G. A. Gallagher III,
FIT Environmental Scientist

THRU: K. H. Malone, Jr., RPM *KHM*

DATE: July 31, 1984

SUBJ: Sampling Inspection at Precision National Corporation, Waco, TX (TX9971)
TDD #R6-8311-33

TXD056363708

The FIT was tasked to conduct sampling at Precision National Corporation in Waco, Texas as a result of high chromium and lead levels found in a sample taken during a reconnaissance inspection conducted on June 20, 1983. Upon arrival at the site, the FIT met with William Mathews, Regional and Plant Manager. Mr. Mathews expressed some concern in regard to the chromium and lead found in the recon inspection sample. He pointed out that lead was not in any way associated with the plating process or machining operations going on at the plant. He was also concerned that the chromium found may not be related to the plating process, waste treatment or temporary storage. The large crankshafts and other engine parts which have been chrome plated are subjected to a certain amount of grinding, filing and polishing. This results in filings and dust which have been disposed of in back of the plant in the past. It was his opinion that the total chrome analysis of the recon sample reflected this filing material, and that untreated Cr⁺⁶ or Cr⁺³ from the treatment system was not a part of the elevated amount detected.

Because of the potential for finding very high levels of chromium in the samples, it was believed that a special analysis for chromium valence would provide the FIT with better information to indicate the problem source, as well as a more specific identification of the contamination hazard.

A total of thirteen surface soil samples were taken at the site. Descriptions of their locations are provided below (also refer to the attached sketch of sample locations) as well as a summary of chromium present in each, and other elevated inorganics. Complete tables of sample analysis data are attached.

Station #01

30' north of Precision Road, 120' west of south driveway entrance. 0 - 3" depth

*Cr (total)	8ppm
Cr (total)	9.6ppm
*Cr ⁺³	8ppm
*Cr ⁺⁶	<1ppm
Silver	2.7ppm
Arsenic	32ppm
Mercur	0.12ppm
Lead	21ppm

SUPERFUND FILE

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Station #02

30' north of Precision Road, 100' west of railroad tracks. 0 - 3" depth

*Cr (total)	6ppm
Cr (total)	6.5ppm
*Cr +3	6ppm
*Cr +6	<1ppm
Silver	2.8ppm
Arsenic	12ppm
Lead	9.2ppm

Station #03

70 yards north of Precision Road, 100 yards south of factory. 0 - 3" depth

*Cr (total)	7ppm
Cr (total)	7.5ppm
*Cr+3	7ppm
*Cr+6	<1ppm
Silver	2.8ppm
Arsenic	8.9ppm
Mercury	0.1ppm
Lead	9.3ppm

Station #04

40' west of railroad tracks, middle of west property line. 0 - 3" depth

*Cr (total)	9ppm
Cr (total)	6.7ppm
*Cr+3	9ppm
*Cr+6	<5ppm
Silver	3.1ppm
Arsenic	13ppm
Mercury	0.16ppm
Lead	15ppm

Station #05

25' southeast of entrance road, southeast of intersection of Valley Mills Loop 369 and Franklin Road. 0 - 3" depth

*Cr (total)	10ppm
Cr (total)	12ppm
*Cr+3	10ppm
*Cr+6	<10ppm
Silver	1.4ppm
Arsenic	24ppm
Mercury	0.12ppm
Lead	91ppm

Station #06

8' south of service road to Valley Mills Loop 369 directly in front of factory.
0 - 3" depth

*Cr (total)	7.5ppm
Cr (total)	8.9ppm
*Cr +3	7.5ppm
*Cr +6	<1ppm
Silver	0.8ppm
Arsenic	17ppm
Lead	14ppm

Station #07

75 yards southeast of southeast corner of factory building. Composite sample of 5 aliquots, 0 - 3" depth in area of 15' diameter

*Cr (total)	16ppm
Cr (total)	16ppm
*Cr+3	16ppm
*Cr+6	<5ppm
Silver	2.6ppm
Arsenic	19ppm
Mercury	0.97ppm
Lead	22ppm

Station #08

25' south of Valley Mills Loop 369 service road, across from entrance ramp to highway. 0 - 3" depth

*Cr (total)	1130ppm
Cr (total)	1050ppm
*Cr+3	1100ppm
*Cr+6	35ppm
Silver	3.0ppm
Arsenic	39ppm
Mercury	0.8ppm
Lead	105ppm
Thallium	0.5ppm

Station #09

30' south of access road, 25 yards west of railroad tracks, in northeast corner of property. Appeared to be off-site (in area where site property, railroad right-of-way and highway right-of-way intersect). Sample was taken at crest of drop off into drainage ditch paralleling railroad tracks, flowing north. 0 - 3" depth

*Cr (total)	618ppm
Cr (total)	660ppm
*Cr+3	618ppm
*Cr+6	<5ppm
Silver	15ppm
Arsenic	31ppm
Mercury	0.26ppm
Lead	37ppm
Thalium	0.5ppm

Station #10

Northeast corner of property, along drainage ditch, at edge of drop-off. Soil taken at three "low spot" locations where surface runoff enters ditch, and composited as one sample. All three were located in a thirty foot line and were 0 - 3" depth each.

*Cr (total)	33ppm
Cr (total)	30ppm
*Cr+3	33ppm
*Cr+6	<10ppm
Silver	16ppm
Arsenic	30ppm
Mercury	1.1ppm
Lead	23ppm
Thalium	0.46ppm

Station #11

60' from access road, where large drainage ditch discharges to drainage parallel to access road and flowing east. 0 - 3" depth

*Cr (total)	1030ppm
Cr (total)	1920ppm
*Cr+3	1030ppm
*Cr+6	36ppm
Silver	14ppm
Arsenic	30ppm
Mercury	1.4ppm
Lead	33ppm
Thalium	0.4ppm

Station #12

At head of small drainage ditch draining the fenced area behind the factory. Composite sample of five aliquots, 0 - 3" depth, in an area of 15' diameter.

*Cr (total)	3260ppm
Cr (total)	3030ppm
*Cr+3	3080ppm
*Cr+6	180ppm
Silver	2.1ppm
Arsenic	21ppm
Mercury	2.0ppm
Lead	34ppm

Station #13

Behind the factory on the east side of the parking lot, and at the head of the large drainage ditch. Composite sample of five aliquots, 0 - 3" depth, in an area of 15' diameter. Included in this area is some evidence of dumped filings from factory.

*Cr (total)	2460ppm
Cr (total)	1600ppm
*Cr+3	2450ppm
*Cr+6	10ppm
Silver	2.6ppm
Arsenic	22ppm
Mercury	1.1ppm
Lead	2020ppm
Barium	630ppm
Cobalt	12ppm
Copper	460ppm
Iron	56,430ppm
Nickel	240ppm

*Indicates data provided by Versar, Inc. lab. All other data is from analysis of the same samples by JTC Environmental.

It should be noted that in some of the samples there is a marked difference in the two values given for total chromium. The samples were first analyzed by JTC Environmental, Rockville, Maryland. The usual inorganic tasks were performed for the soil samples (including total chromium). The remaining sample was repackaged and forwarded on to Versar, Inc., Springfield, Virginia. Versar carried out special analysis for total chromium, Cr+3 and Cr+6 only. Differences in the amounts of chromium reported are probably due to variances in the soil of each sample and different analytical methods. Because analysis is carried out for total chromium and hexavalent chromium only, the difference has been reported as trivalent. The Cr+3 values given may also actually include metallic chromium present.

Samples #01, #02, #03, #04, #05, and #06 appear to provide good background information on the natural presence of inorganics, as well as the influence of outside sources on the soils at the site. Samples #12 and #13 were taken at the potential problem sources. Station #12 is located adjacent to the area where plating solution treatment and treated waste temporary storage are located. Station #13 is in an area where filings and other debris have been dumped. Samples #08 and #11 trace the drainage as it proceeds eastward along the north property line, and Samples #09 and #10 were taken where drainage leaves the property.

Based on the above sample data, it appears that a problem exists at this site. Sample #12 indicates that some chromium from the treatment process has been escaping containment. Sample #13 indicates that the dumped materials in this area contain elevated levels of several inorganic pollutants (Cr+3 - 2450ppm, Cr+6 - 10ppm, Lead - 2020ppm, as well as others). Sample #09 did not indicate that hexavalent chromium is leaving the site, however, 618ppm Cr+3 was detected.

Based on the above sample data, it is recommended that Precision National be advised to employ better "housekeeping" practices to ensure that the treatment system waste is no longer allowed to leave the treatment area, and that the dumping of debris potentially containing contaminants such as those found in Sample #13, be discontinued.

/rc

TABLE I. INORGANIC ANALYSIS SUMMARY

Page 1 of 2CASE NUMBER: 2343SITE NAME/CODE: Precision National/TX9971

CONCENTRATIONS (ppm)

PARAMETER	EPA Sample Numbers										Ambient Background 1.	
	MF0304	MF0305	MF0306	MF0307	MF0308	MF0309	MF0310	MF0311	MF0312	MF0313	Western U.S. 2.	Eastern U.S. 2.
Matrix Type	Blank	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	5390s	4840	3900	4580	8000	6300	6270	11660	9210	54,000	33,000	
Chromium	9.6s	6.5	7.5	6.7	12	8.9	16	1050	660	38	36	
Barium	72	55	54	81	91	61	61	102	88	560	300	
Beryllium	0.6	0.3	0.4	0.5	0.5	0.6	0.5	0.6	0.7	0.6	0.6	
Cobalt	7.8	9.2	8.1	4.6	8.1	4.6	7.8	7.4	10	8	7	
Copper	8.3	7.7	6.3	7.3	7.7	7.1	7.6	30	15	21	14	
Iron	4120s	5720	3850	5010	6950	6210	6270	11540	11400	20,000	15,000	
Nickel	19	18	15	13	15	9.0	18	20	18	16	13	
Manganese	760	610	580	520	760	390	720	680	700	390	290	
Zinc	32	22	15	55	39	18	26	49	56	51	36	
Boron										22	32	
Vanadium	30	21	26	26	39	18	22	37	35	66	46	
Silver	2.7	2.8	2.8	3.1	1.4	0.8	2.6	3.0	15	<.50	-	
Arsenic	32	12	8.9	13	24	17	19	39	31	6.1	5.4	
Antimony	2.7	1.8	1.4	1.9	2.8	1.8	2.5	4.2	4.5	<150	-	
Selenium			0.6	0.8			0.2	0.2	0.3	0.25	0.39	
Thallium								0.5	0.5	-	-	
Mercury	0.12		0.10	0.16	0.12			0.97	0.60	0.26	0.055	0.096
Tin	1.4s	0.97	1.5	1.0	1.0	3.1	1.4	4.2	2.7	<10	<10	
Cadmium	0.28	0.14	0.20	0.28	0.20	0.16	0.14	0.80	0.21	<1	<1	
Lead	21s	9.2	9.3	15	91	14	22	105	37	18	14	
Ammonia										-	-	
Cyanide										-	-	
Sulfide										-	-	
Station No.	Blank	01	02	03	04	05	06	07	08	09	1. Ambient background concentrations apply only to soil matrix samples.	
Sample Station Location		30' N. OF PRECISION RD./20' W. OF S.DRIVE WAY EN- TRANCE D-3"	30' N. OF PRECISION RD./100' W. OF RR TRACKS	70 YDS. N. OF PRECIS- RD./100' S. OF FACTORY LINE	40' W. OF MIDDLE OF PROPERTY	25FT. S.E. OF RR TRACK RD.	8' S. OF VALLEY MILLS	75YDS.S.E. OF S.E. CORNER OF MILL	25'S. OF VALLEY MILLS	30' S. OF ACCESS RD. 25YAS.W. OF RR	Values obtained from "Geochemistry of Some Rocks, Soils, Plant and Vegeta- bles in the Conterminous United States" Geological Survey Professional Paper	

2. Reference for East/West Division is the 97° W longitudinal line which bisects Region VI.

C - Concentration corrected for lab blank concentration

TABLE I. INORGANIC ANALYSIS SUMMARY

Page 2 of 2CASE NUMBER: 2343SITE NAME/CODE: Precision National/TX9971

CONCENTRATIONS (ppm)

PARAMETER	EPA Sample Numbers				Ambient Background 1.	
	MF0314	MF0315	MF0316	MF0317	Western U.S. 2.	Eastern U.S. 2.
Matrix Type	Soil	Soil	Soil	Soil	Soil	Soil
Aluminum	10080	9090	6910	3040	54,000	33,000
Chromium	30	1920	3030	1600	38	36
Barium	75	76	90	630	560	300
Beryllium	0.6	0.5	0.5	-	0.6	0.6
Cobalt	8.0	7.3	8.2	12	8	7
Copper	11	23	29	460	21	14
Iron	9790	15180	7170	56340	20,000	15,000
Nickel	18	18	21	240	16	13
Manganese	610	630	820	825	390	290
Zinc	49	42	50	72	51	36
Boron	-	-	-	-	22	32
Vanadium	35	40	28	42	66	46
Silver	16	14	2.1	2.6	<.50	-
Arsenic	30	30	21	22	6.1	5.4
Antimony	4.2	3.2	2.6	3.6	<150	-
Selenium	0.42	0.5	0.3	-	0.25	0.39
Thallium	0.46	0.4	-	-	-	-
Mercury	1.1	1.4	2.0	1.1	0.055	0.096
Tin	2.1	2.3	1.4	2.9	<10	<10
Cadmium	0.22	0.20	0.29	0.54	<1	<1
Lead	23	33	34	2020	18	14
Ammonia	-	-	-	-	-	-
Cyanide	-	-	-	-	-	-
Sulfide	-	-	-	-	-	-
Station No.	10	11	12	13	1. Ambient background concentrations apply only to soil matrix samples. Values obtained from "Geochemistry of Some Rocks, Soils, Plant and Vegetables in the Conterminous United States" Geological Survey Professional Paper	
Sample Station Location	N.E. CORNER 60' FROM OF PROPERTY ACCESS RD ALONG DRAINAGE DITCH; FROM EDGE WHERE LARGE DRAINAGE DITCH DISCHARGES BEGINNING OF SMALL DRAINAGE DITCH FROM FENCED AREA BEHIND FACTORY DITCH FROM PARKING LOT HEAD OF DRAINAGE WAY					

2. Reference for East/West Division is the 97° W longitudinal line which bisects Region VI.

C - Concentration corrected for lab blank concentration

Table III. INORGANIC.

CASE NUMBER: 2343

SITE NAME/CODE: Precision Nat'l Corp.

Page 1 of 2

Table III. INORGANIC

CASE NUMBER: 2343

SITE-NAME/CODE: Precision Nat'l Corp.

Page 2 of 2

INORGANIC QC CHECKLIST

Site	<u>Precision National</u>		
Contractor	<u>JTC</u>	Contract No. <u>68-01-6616</u>	
Case No.	<u>2343</u>	Matrix	<u>Soil/Sediment</u>
Sample No.	<u>MF0304 F. Blank</u>	<u>MF0308</u>	<u>MF0312</u>
	<u>MF0305</u>	<u>MF0309</u>	<u>MF0313</u>
	<u>MF0306</u>	<u>MF0310</u>	<u>MF0314</u>
	<u>MF0307</u>	<u>MF0311</u>	<u>MF0315</u>

COMMENTS (To be completed by EPA Personnel)

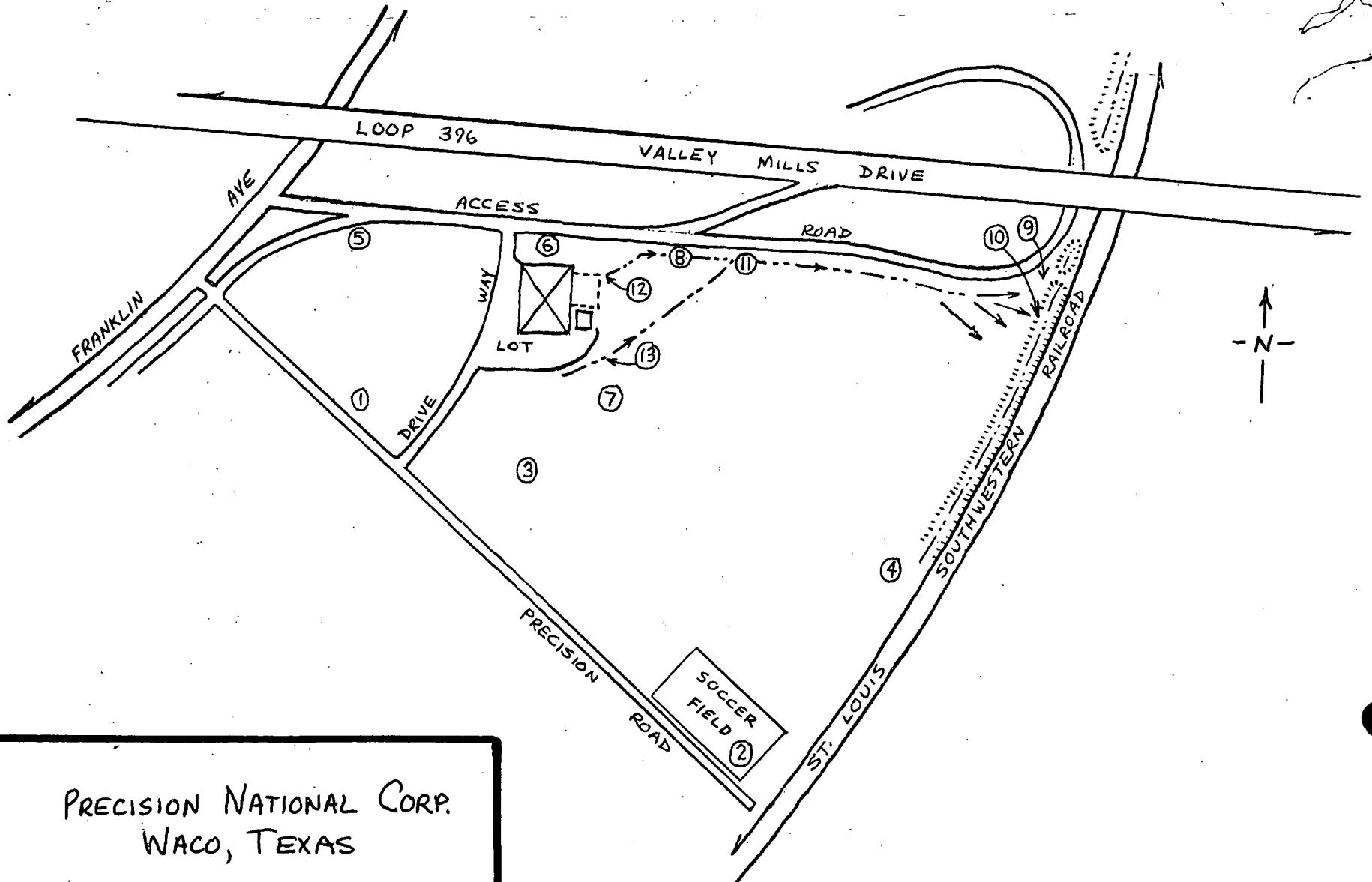
Data Completeness	<input checked="" type="checkbox"/> Acceptable	<input type="checkbox"/> Not Acceptable
Instrument Calibration Tune	<input checked="" type="checkbox"/> Acceptable	<input type="checkbox"/> Not Acceptable
Interference Check Sample	<input type="checkbox"/> NA Acceptable	<input type="checkbox"/> Not Acceptable
Blank Analysis	<input checked="" type="checkbox"/> Acceptable	<input type="checkbox"/> Not Acceptable
Matrix Spikes	<input type="checkbox"/> * Acceptable	<input type="checkbox"/> Not Acceptable
Duplicates	<input type="checkbox"/> * Acceptable	<input type="checkbox"/> Not Acceptable
Field Blanks	<input checked="" type="checkbox"/> Acceptable	<input type="checkbox"/> Not Acceptable

ADDITIONAL COMMENTS

- * 1) Low Spike Recoveries: Cr 76%, Pb 70%, Sc 40%.
- High Spike Recoveries: Al 125%, Fe 144%, Sn 464%.
- * 2) Standard Addition used to compute the Chromium, Tin, and Lead values for sample MF0305, but apparently not used to compute the values for these elements for sample MF0305 Duplicate.

Reviewed *Jerry Caramata*

2/21/84

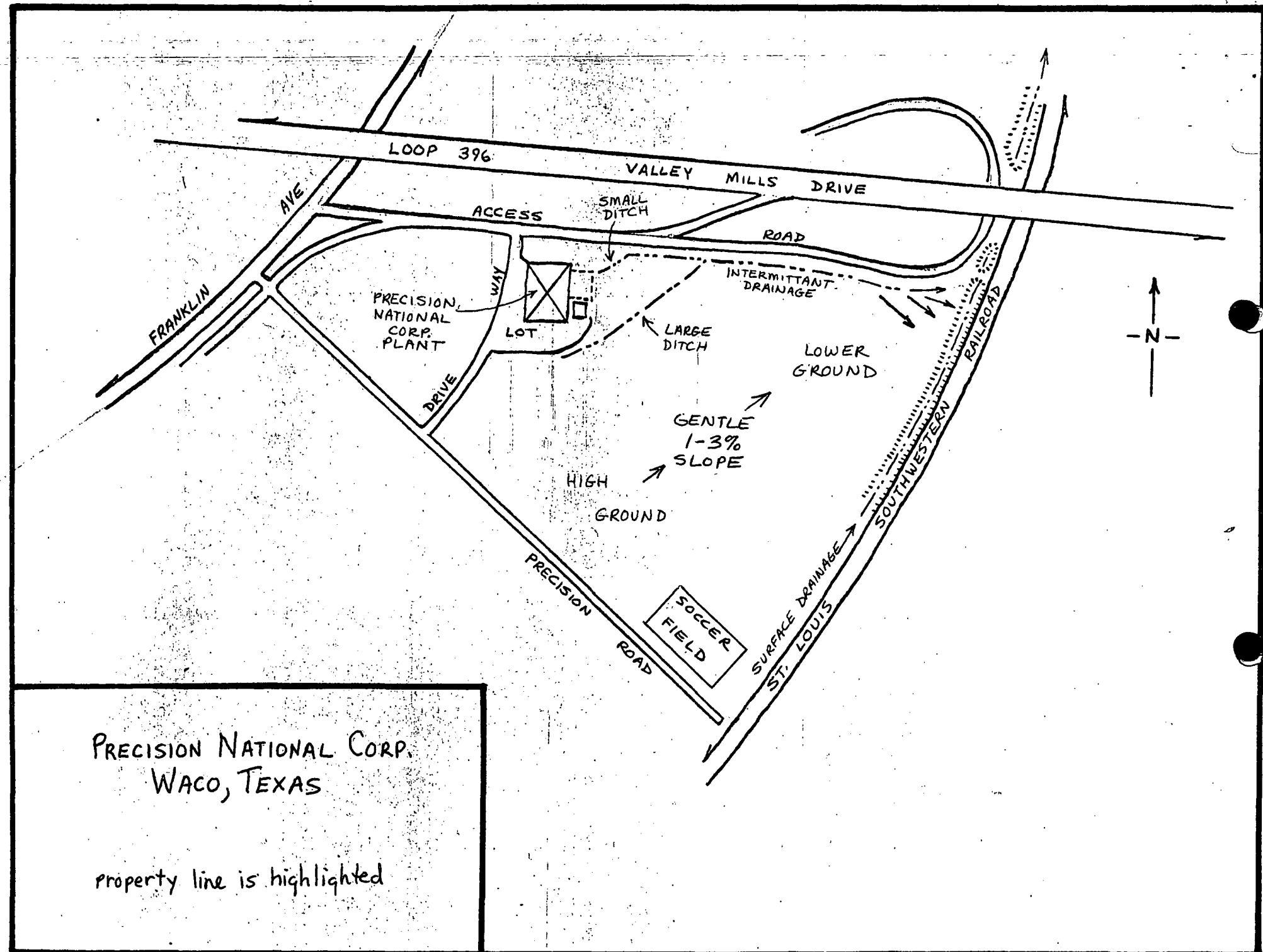


PRECISION NATIONAL CORP.
WACO, TEXAS

January 11, 1984
Sample Locations

PRECISION NATIONAL CORP.
WACO, TEXAS

property line is highlighted



DATE: 7-10-84

SUBJECT: CLP Data Review

FROM: William Langley, Chief Houston Branch (6ES-H) M.L. Ritter for

To: Keith Bradley
Hazardous Waste Section (6ES-SH)

A review of the laboratory raw data for case # 2343 has been completed by members of the Laboratory Section. Attached please find copies of the relevant QC notices for the following samples.

INORGANIC: MF0364 through MF0317

ORGANIC

PETERSON WAGGONER CORP
TXD056363708

Please call me if you have any questions regarding the data review.

Attachments

Precision Nat'l

SUPERFUND FILE

JAN 13 1993

REORGANIZED

INORGANIC QC CHECKLIST

COMMENTS (To be completed by EPA Personnel)

Data Completeness	<input checked="" type="checkbox"/>	Acceptable	<input type="checkbox"/>	Not Acceptable
Instrument Calibration Tune	<input checked="" type="checkbox"/>	Acceptable	<input type="checkbox"/>	Not Acceptable
Interference Check Sample	<input checked="" type="checkbox"/>	Acceptable	<input type="checkbox"/>	Not Acceptable
Blank Analysis	<input checked="" type="checkbox"/>	Acceptable	<input type="checkbox"/>	Not Acceptable
*Matrix Spikes	<u>See Comments</u>	Acceptable	<u>See Comments</u>	Not Acceptable
Duplicates	<input checked="" type="checkbox"/>	Acceptable	<input type="checkbox"/>	Not Acceptable
Field Blanks? No Traffic Farms.	<input type="checkbox"/>	Acceptable	<input type="checkbox"/>	Not Acceptable

★ ADDITIONAL COMMENTS

1. The spike recovery value for Cr⁺⁶, sample MF 0306, is 50%. A value of <1 mg/kg Cr⁺⁶ is recorded for the sample, footnoted with "S" - sample analyzed by the standard addition method. The contract requests that if a spike recovery is not within the required limits, the net response for the sample spike shall be used as a single point method of addition calibration for the spiked sample (Exhibit E, page 6). However, I feel a single point method of addition cannot verify a below detection limit value, when the initial readout is below the

Reviewed

INORGANIC QC CHECKLIST

Site Precision National

Contractor Versar

Contract No. 68-01-666

Case No. 2343

Matrix

Sample No. MF 0304 through

MF0317

COMMENTS (To be completed by EPA Personnel)

Data Completeness **Acceptable** **Not Acceptable**

Instrument Calibration Tune **Acceptable** **Not Acceptable**

Interference Check Sample Acceptable Not Acceptable

Blank Analysis **Acceptable** **Not Acceptable**

Matrix Spikes **Acceptable** **Not Acceptable**

Field Blanks Acceptable Not Acceptable

ADDITIONAL COMMENTS

detection limit and the recovery of the addition (the spike) is 50%. An initial Cr⁺⁶ spike attempt, on sample MF 0305, resulted in a 0% spike recovery (See the first Cr⁺⁶ Flame AA Analysis Log Sheet).

2. All Task 1 Chromium values, with the exception of the value for Sample MF0310, are rounded off to whole numbers.

Reviewed Jerry Caravotis
June 8, 1984

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
6500 HORNWOOD DRIVE HOUSTON, TEXAS 770

DATE: February 23, 1984

SUBJECT: CLP Data Review

FROM: William Langley, Chief
Houston Branch (6ES-H)

William D. Langley

TO: Phil Crocker
Hazardous Waste Section (6ES-SH) *(PPC)*
Phil Crocker

A review of the laboratory raw data for case # 2343 has been completed by members of the Laboratory Section. Attached please find copies of the relevant QC notices for the following samples:

INORGANIC: MF 0304 MF 0308 MF 0312 MF 0316
MF 0305 MF 0309 MF 0313 MF 0317
MF 0306 MF 0310 MF 0314 _____
MF 0307 MF 0311 MF 0315 _____

Precision National Corp

FAD 086-368708

ORGANIC: _____

Please call me if you have any questions regarding the data review.

Attachments

SUPERFUND FILE

JAN 13 1993

REORGANIZED

INORGANIC QC CHECKLIST

Site	<u>Precision National</u>		
Contractor	<u>JTC</u>	Contract No. <u>68-01-6616</u>	
Case No.	<u>2343</u>	Matrix	<u>Soil/Sediment</u>
Sample No.	<u>MF0304 F.Bk</u>	<u>MF0308</u>	<u>MF0312</u>
	<u>MF0305</u>	<u>MF0309</u>	<u>MF0313</u>
	<u>MF0306</u>	<u>MF0310</u>	<u>MF0314</u>
	<u>MF0307</u>	<u>MF0311</u>	<u>MF0315</u>

COMMENTS (To be completed by EPA Personnel)

Data Completeness	<input checked="" type="checkbox"/> Acceptable	<input type="checkbox"/> Not Acceptable
Instrument Calibration Tune	<input checked="" type="checkbox"/> Acceptable	<input type="checkbox"/> Not Acceptable
Interference Check Sample	<input type="checkbox"/> NA Acceptable	<input type="checkbox"/> Not Acceptable
Blank Analysis	<input checked="" type="checkbox"/> Acceptable	<input type="checkbox"/> Not Acceptable
Matrix Spikes	<input type="checkbox"/> * Acceptable	<input type="checkbox"/> Not Acceptable
Duplicates	<input type="checkbox"/> * Acceptable	<input type="checkbox"/> Not Acceptable
Field Blanks	<input checked="" type="checkbox"/> Acceptable	<input type="checkbox"/> Not Acceptable

ADDITIONAL COMMENTS

* 1) Low Spike Recoveries: Cr 76%, Pb 70%, Se 40%.

High Spike Recoveries: Al 125%, Fe 144%, Sn 464%.

* 2) Standard Addition used to compute the Chromium, Tin, and Lead values for sample MF0305, but apparently not used to compute the values for these elements for sample MF0305 Duplicate.

Reviewed *George Caronotis*

2/21/84

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 2/8/84

MODE: Flame

OPERATOR: E. Dantscher

INJ. VOL.: —

METAL: Al

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	475#3			.030	644
	Meth. Pdr.	H. Blk.			.000	4,100
	MF-0304	70-0746			.000	4,100
	MF-0305	70-0747	1:300		.022	142,300
	MF-0305	D. 70-0747	1:300		.020	129,600
	MF-0305	Sp. 70-0747	1:300	1000	.065	1,380
	MF-0306	70-0748	1:100		.047	100,300
	MF-0307	70-0749	1:100		.042	89,750
	MF-0308	70-0750	1:100		.048	102,400
	MF-0309	70-0751	1:100		.080	170,100
	MF-0310	70-0752	1:100		.061	130,000
	MF-0311	70-0753	1:100		.059	125,700
	EPA QC	475#3			.031	665
	MF-0312	70-0754	1:100		.116	244,300
	MF-0313	70-0755	1:100		.097	206,100
	MF-0314	70-0756	1:100		.102	216,700
TKD0563637087 SUPERFUND FILE	MF-0315	70-0757	1:100		.096	204,000
JAN 21 1993	MF-0316	70-0758	1:100		.065	138,400
	MF-0317	70-0759	1:100		.029	62,200
REORGANIZED Precision Data Corp.	EPA QC	475#3			.033	707

*Results corrected for dilutions
and blank.

PROJECT MANAGER

DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 2/7/84

MODE: flame

OPERATOR: E. Dantsker

INJ. VOL.:

METAL: Ba

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	378#10			.024	296
	Meth. Blk	11. Blk.			.001	<100
	MF-0304	70-0746			.005	<100
	MF-0305	70-0747	1:2		.062	1530
	MF-0305	D. 70-0747	1:2		.114	1400 2800
	MF-0305	S. 70-0747	1:2	1000	.135	1660
	MF-0306	70-0748			.093	1140
	MF-0307	70-0749			.099	1220
	MF-0308	70-0750			.147	1810
	MF-0309	70-0751			.157	1930
	MF-0310	70-0752			.102	1260
	MF-0311	70-0753		?	.099	1220
	EPA QC			(1000)	.027	333
	MF-0312	70-0754			.175	2160
	MF-0313	70-0755			.161	1980
	MF-0314	70-0756			.132	1620
	MF-0315	70-0757			.138	1700
	MF-0316	70-0758			.147	1810
	MF-0317	70-0759	1:25		.042	12940
	EPA QC	378#10			.024	296

*Results corrected for dilutions
and blank.

PROJECT MANAGER

2/8/84

DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 2/6/84

MODE: flame

OPERATOR: E. Dantsker

INJ. VOL.: —

METAL: Ag

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC				.036	60
	Meth. Blank	H. Blank			-.002	<10
	MF-0304	70-0746			.002	<10
	MF-0305	70-0747			.034	57
	MF-0305	D. 70-0747			.030	50
	MF-0305	S. 70-0747	100		.084	141
	MF-0306	70-0748			.034	57
	MF-0307	70-0749			.037	62
	MF-0308	70-0750			.041	69
	MF-0309	70-0751			.019	31
	MF-0310	70-0752			.010	16
	MF-0311	70-0753			.031	52
	EPA QC				.038	64
	MF-0312	70-0754			-.195	329
	MF-0313	70-0755			.207	350
	MF-0314	70-0756			.186	314
	MF-0315	70-0757			.026	43
	MF-0316	70-0758			.028	47
	MF-0317	70-0759			.032	53
	EPA QC				.033	55

*Results corrected for dilutions
and blank.

PROJECT MANAGER

2/8/84
DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 2/1/84

MODE: CV

OPERATOR: E. Dantsker

INJ. VOL.: —

METAL: Hg

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC				.086	.213
	Hg Hg Blk	Hg Blk			.006	<.02
	MF-0304	70-0746			.005	<.02
	MF-0305	70-0747			.010	.025
	MF-0305	D. 70-0747			.007	<.02
	MF-0305	Sp. 70-0747	4.0ppb 0.4ug		.165	4.1 ppb -41 ug
	MF-0306	70-0748			.008	<.02
	MF-0307	70-0749			.009	.022
	MF-0308	70-0750			.014	.034
	MF-0309	70-0751			.010	.025
	MF-0310	70-0752			.005	<.02
	MF-0311	70-0753			.085	.211
	EPA QC				.088	.218
	MF-0312	70-0754			.055	.136
	MF-0313	70-0755			.021	.052
	MF-0314	70-0756			.009	.22
	MF-0315	70-0757			.120	.297
	MF-0316	70-0758			.160	.396
	MF-0317	70-0759			.094	.232
	EPA QC				.088	.217

*Results corrected for dilutions
and blank.

PROJECT MANAGER

2/5/84
DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1/26/84

MODE: *graph*

OPERATOR: E. Dantsker

INJ. VOL.: 20µl

METAL: As

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC				.022	22
	Meth. Blk	H. Blk			.005	<10
	MF-0304	70-0746			.004	↓
	MF-0305	70-0747	1:25		.027	680
	MF-0305	D. 70-0747	1:25		.017	430
	MF-0305	Sb. 70-0747	1:25	50	.072	(72)
	MF-0306	70-0748	1:25		.010	250
	MF-0307	70-0749	1:25 1:25 + 50		.008 .023	200 290
	MF-0308	70-0750	1:12.5		.024	300
	MF-0309	70-0751	1:10		.051	510
	MF-0310	70-0752	1:10		.035	350
	MF-0311	70-0753	1:10		.039	390
	EPA QC				.024	24
	MF-0312	70-0754	1:10		.081	820
	MF-0313	70-0755	1:20		.035	700
	MF-0314	70-0756	1:10		.064	640
	MF-0315	70-0757	1:10		.068	680
	MF-0316	70-0758	1:10		.042	420
	MF-0317	70-0759	1:10		.046	460
	EPA QC				.025	25

*Results corrected for dilutions
and blank.

PROJECT MANAGER

1/27/84
DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1/27/84

MODE: *gross*

OPERATOR: E. Dantscher

INJ. VOL.: 20 μ l

METAL: Se

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
92%	EPA-70	EPA QC			.027	13
	MF-0304	H. Blk	H. Blk		.001	<2
	MF-0304	70-0746			.001	
	MF-0305	70-0747			.001	
	MF-0305	D. 70-0747			.003	↓
40%	MF-0305	Sp. 70-0747		25	.021	9.9
	MF-0306	70-0748	1:2		.014	13
	MF-0307	70-0749	1:4		.010	18
	MF-0308	70-0750			.000	<2
	MF-0309	70-0751			.002	
	MF-0310	70-0752			.003	↓
	MF-0311	70-0753			.009	4
92%	EPA QC				.027	13
	MF-0312	70-0754			.012	5
	MF-0313	70-0755	8 th 1:2		.015	7
	MF-0314	70-0756			.019	9
	MF-0315	70-0757			.025	12
	MF-0316	70-0758			.015	7
	MF-0317	70-0759			.004	<2
86%	EPA QC				.026	12

*Results corrected for dilutions
and blank.

PROJECT MANAGER

DATE

1/27/84

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1.20.87

MODE: GESIA

OPERATOR: E. Dantscher

INJ. VOL.: 20µl

METAL: Cd

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	581#1	1/100		.020	2.7
	Meth. Blk	H. Blk.	1/1		.009	<1.0
	MF-0304	70-0746	"		.001	↓
	MF-0305	70-0747	1/5		.009	5.9
	MF-0305	D. 70-0747	"		.010	6.6
	MF-0305	SL. 70-0747	(")	2 µg	.024	(3.2)
	MF-0306	70-0748	1/1		.022	3.0
	MF-0307	70-0749	"		.033	4.4
	MF-0308	70-0750	1/2		.023	6.2
	MF-0309	70-0751	1/1		.032	4.3
	MF-0310	70-0752	"		.025	3.4
	MF-0311	70-0753	"		.021	2.8
	EPA QC	581#1	1/100		.024	3.2
	MF-0312	70-0754	1/5		.025	1.7
	MF-0313	70-0755	1/1		.034	4.6
	MF-0314	70-0756	"		.035	4.7
	MF-0315	70-0757	1/1		.034	4.6
	MF-0316	70-0758	1/2		.022	5.9
	MF-0317	70-0759	1/5		.017	1.1
	EPA QC	581#1	1/100		.024	3.2

*Results corrected for dilutions
and blank. PROJECT MANAGER1/20
DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1/19/89

MODE: GFAA

OPERATOR: E. Dantsker

INJ. VOL.: 200

METAL: TL

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	581#1	1/100		.023	25
	Meth. Blk	11. Blk	11		.001	N.D.
	MF-0304	70-0746	4		.000	N.D.
	MF-0305	70-0747	1		.005	N.D.
	MF-0305	D. 70-0747	1		.003	N.D.
	MF-0305	Sl. 70-0747	1	25ppm	.018	20
	MF-0306	70-0748	4		.003	N.D.
	MF-0307	70-0749	1		.003	N.D.
	MF-0308	70-0750	1		.004	N.D.
	MF-0309	70-0751	4		.006	N.D.
	MF-0310	70-0752	1		.003	N.D.
	MF-0311	70-0753	4		.005	N.D.
	EPA QC	581#1	1/100		.026	29
	MF-0312	70-0754	41		.009	10
	MF-0313	70-0755	4		.010	11
	MF-0314	70-0756	4		.009	10
	MF-0315	70-0757	4		.009	10
	MF-0316	70-0758	1		.005	N.D.
	MF-0317	70-0759	4		.004	N.D.
	EPA QC	581#1	1/100		.025	27.5

*Results corrected for dilutions
and blank.

PROJECT MANAGER

1/19
DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1/17/84

MODE: GFAA

OPERATOR: E. Dantsker

INJ. VOL.: 20µl

METAL: Pb

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	475# 4	1/1000		.025	24.6
	Meff. Blk	L. Blk	1		.000	<5
	MF-0304	70-0746	"		.000	<5
	MF-0305	70-0747	1/25		.012 .005	310
	MF-0305	D. 70-0747	4		.011	280
	MF-0305	Sp. 70-0747	(n/1)	10ppB	.019	(19)
	MF-0306	70-0748	1/25		.007	190
	MF-0307	70-0749	"		.008	210
	MF-0308	70-0750	"		.013	330
	MF-0309	70-0751	4		.081	940
	MF-0310	70-0752	"		.04	280
	MF-0311	70-0753	"		.018	450
	EPA QC	475# 4	1/100		.023	23
	MF-0312	70-0754	1/25		.093	2220
	MF-0313	70-0755	4		.039	830
	MF-0314	70-0756	4		.020	500
	MF-0315	70-0757	450		.015	750
	MF-0316	70-0758	1/25		.028	680
	MF-0317	70-0759	1/1250		.034	41,360
	EPA QC	475# 4	1/100		.025	24.6

*Results corrected for dilutions
and blank.

PROJECT MANAGER

DATE

11/8

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1/17/84

MODE: Flame

OPERATOR: E. Dantsker

INJ. VOL.: —

METAL: Be

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	425#4	1/20		.099	99
	Meth. Blk	H. Blk	1/1		.000	<5
	MF-0304	70-0746	4		.003	↓
	MF-0305	70-0747	4		.013	13
	MF-0305	D. 70-0747	1		.010	10
	MF-0305	S. 70-0747	1 "	.20ppm	.029	29
	MF-0306	70-0748			.006	6
	MF-0307	70-0749			.010	10
	MF-0308	70-0750			.012	12
	MF-0309	70-0751			.011	11
	MF-0310	70-0752			.012	12
	MF-0311	70-0753			.010	10
	EPA QC	425#4	1/20		.102	102
	MF-0312	70-0754			.012	12
	MF-0313	70-0755			.016	16
	MF-0314	70-0756			.012	12
	MF-0315	70-0757			.011	11
	MF-0316	70-0758			.010	10
	MF-0317	70-0759			.004	<5
	EPA QC	425#4	1/20		.102	102

*Results corrected for dilutions
and blank.

PROJECT MANAGER

1/18 DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 11/12/84

MODE: FCone

OPERATOR: E. Dantsker

INJ. VOL.: —

METAL: ✓

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	475#3	1/100		.020	746
	Meth. Blk	H. Blk	1/1		.001	N.D.
	MF-0304	70-0746	"		.000	N.D.
	MF-0305	70-0747	"		.017	632
	MF-0305	D. 70-0747	"		.018	670
	MF-0305	Sp. 70-0747	(+)	1000ppm	.046	1089
	MF-0306	70-0748	"		.012	472
	MF-0307	70-0749	"		.016	594
	MF-0308	70-0750	"		.016	594
	MF-0309	70-0751	"		.022	822
	MF-0310	70-0752	"		.010	365
	MF-0311	70-0753	"		.012	442
	EPA QC	475#3	1/100		.020	746
	MF-0312	70-0754			.021	784
	MF-0313	70-0755			.021	784
	MF-0314	70-0756			.020	746
	MF-0315	70-0757			.024	899
	MF-0316	70-0758			.015	556
	MF-0317	70-0759			.023	860
	EPA QC	475#3	1/100		.020	746

*Results corrected for dilutions
and blank.

PROJECT MANAGER

1/17
DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1.17.84

MODE: Flame

OPERATOR: E. Dantsker

INJ. VOL.:

METAL: Co

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	475# 3	1/100		.061	511.
	Meth. Blnk	H. Blnk.	1/1		.900	N.D.
	MF-0304	70-0746	4		.0000	N.D.
	MF-0305	70-0747	~		.021	164.
	MF-0305	D. 70-0747	~		.022	173.
	MF-0305	Sl. 70-0747	~	500ppm	.077	468.
	MF-0306	70-0748			.024	190.
	MF-0307	70-0749			.023	182.
	MF-0308	70-0750			.014	104.
	MF-0309	70-0751			.022	173
	MF-0310	70-0752			.013	95.
	MF-0311	70-0753			.020	156.
	EPA QC	475# 3	1/100		.059	494.
	MF-0312	70-0754			.020	156.
	MF-0313	70-0755			.028	223.
	MF-0314	70-0756			.022	173
	MF-0315	70-0757			.021	164.
	MF-0316	70-0758			.021	164.
	MF-0317	70-0759			.021	251.
	EPA QC	475# 3	1/100		.058	494.

*Results corrected for dilutions
and blank.

PROJECT MANAGER

1/17 DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1/16. 84

MODE: Flame

OPERATOR: E. Dantsker

INJ. VOL.: —

METAL: Fe

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	475#6	1/100		.119	955.
	Meth. Blk	H. Blk.	"		.003	N.D.
	MF-0304	70-0746	"		.001	N.D.
	MF-0305	70-0747	1/100		.185	149334
	MF-0305	D. 70-0747	"		.155	124891
	MF-0305	S. 70-0747	(4)	100ppb	.363	1436.
	MF-0306	70-0748	"		.147	118372.
	MF-0307	70-0749	"		.108	86596.
	MF-0308	70-0750	"		.139	111854.
	MF-0309	70-0751	"		.183	147705.
	MF-0310	70-0752	"		.159	128150.
	MF-0311	70-0753	"		.156	125705
	EPA QC	475#6	1/100		.119	955
	MF-0312	70-0754	"		.301	243849
	MF-0313	70-0755	"		.315	255256
	MF-0314	70-0756	"		.260	210443
	MF-0315	70-0757	"		.420	340808
	MF-0316	70-0758	"		.178	143681
	MF-0317	70-0759	1/5000		.030	1152173
	EPA QC	475#6	1/100	D	.121	972

*Results corrected for dilutions
and blank.

PROJECT MANAGER

1/16
DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 6/16/84

MODE: Flame

OPERATOR: E. Dantsker

INJ. VOL.: —

METAL: Cr

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	475#6	1/1000		.136	248.
	Meth. Blk	M. Blk	1/1		-.003	N.D.
	MF-0304	70-0746	1		-.005	N.D.
	MF-0305	70-0747	1		.089	161.
	MF-0305	D. 70-0747	1		.077	134.
	MF-0305	Sl. 70-0747	1	250ppm	.193	189.
	MF-0306	70-0748	1		.075	135.
	MF-0307	70-0749	1		.093	169.
	MF-0308	70-0750	1		.083	150.
	MF-0309	70-0751	1		.137	250.
	MF-0310	70-0752	1		.101	184.
	MF-0311	70-0753	1		.181	331.
	EPA QC	475#6	1/1000		.136	248.
	MF-0312	70-0754	1/1		.122	22200.
	MF-0313	70-0755	1/1		.081	14700.
	MF-0314	70-0756	1/1		.357	657.
	MF-0315	70-0757	1/200		.118	43000.
	MF-0316	70-0758	1/1		.166	60600.
	MF-0317	70-0759	1/100		.179	32784.
	EPA QC	475#6	1/1000	St	.133	243.

*Results corrected for dilutions
and blank.

PROJECT MANAGER

1/16
DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1.16.84

MODE: Flame

OPERATOR: E. Dantsker

INJ. VOL.: —

METAL: Ni

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	475#6	1/100		.062	298.
	Meth. Blk	M. Blk.	11		.001	N.D.
	MF-0304	70-0746	4		.003	N.D.
	MF-0305	70-0747	"		.084	406.
	MF-0305	D. 70-0747	"		.074	357.
	MF-0305	S. 70-0746 (1)	400ppb		.159	362.
	MF-0306	70-0748	1		.077	372.
	MF-0307	70-0749	1		.072	347.
	MF-0308	70-0750	"		.059	284.
	MF-0309	70-0751	"		.066	318.
	MF-0310	70-0752	"		.039	186.
	MF-0311	70-0753	"		.075	362.
	EPA QC	475#6	1/100		.063	303.
	MF-0312	70-0754	11		.087	421.
	MF-0313	70-0755	4		.085	411.
	MF-0314	70-0756	"		.080	386.
	MF-0315	70-0757	"		.083	401.
	MF-0316	70-0758	"		.089	430.
	MF-0317	70-0759	1/25		.041	4889.
	EPA QC	475#6	1/100	JL	.060	289.

*Results corrected for dilutions
and blank.

PROJECT MANAGER

1/16
DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1.16.89

MODE: Flame

OPERATOR: E. Dantsker

INJ. VOL.: —

METAL: Mn

AUTO. CAL.: —

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	475# G	1/200		.136	253
	Meth. Blk	M. Blk.			.000	N.D.
	MF-0304	70-0746			.000	N.D.
	MF-0305	70-0747	1/100		.087	16131.
	MF-0305	D. 70-0747	"		.072	13331
	MF-0305	70-0747	" 1	500ppb	.363	515.
	MF-0306	70-0748	"		.068	12584
	MF-0307	70-0749	"		.070	12958
	MF-0308	70-0750	"		.263	11652.
	MF-0309	70-0751	"		.087	16131.
	MF-0310	70-0752	"		.044	8106.
	MF-0311	70-0753	"		.078	14451.
	EPA QC	475# G	1/200		.136	253
	MF-0312	70-0754	1/100		.077	14265
	MF-0313	70-0755	"		.084	15571
	MF-0314	70-0756	"		.071	13145
	MF-0315	70-0757	"		.076	14078
	MF-0316	70-0758	"		.089	16504
	MF-0317	70-0759	"		.091	16878
	EPA QC	475# G	1/200		.134	249.

*Results corrected for dilutions
and blank.

PROJECT MANAGER

1/16
DATE

JTC ENVIRONMENTAL CONSULTANTS, INC.

METALS ANALYSIS LOG SHEET

DATE: 1/16/84

MODE: Flame

OPERATOR: E. Dantsbier

INJ. VOL.: -

METAL: Zn

AUTO. CAL.: -

CASE #: 2343

PROJECT	SAMPLE ID	JTC LOG NO.	DILN FACTOR	SPIKE ADDED	AVE. PK HT or ABS	* CONC.
EPA-70	EPA QC	425#4	1/20		.050	79.
	Methyl Blue	H. Blk.			.006	N.D.
	MF-0304	70-0746			.006	N.D.
	MF-0305	70-0747	1/4		.102	666
	MF-0305	D. 70-0747	"		.079	126.5
	MF-0305	Sp. 70-0747	"	200ppm	.122	197
	MF-0306	70-0748	1/1		.176	459
	MF-0307	70-0749	"		.206	341
	MF-0308	70-0750	1/2		.366	1220
	MF-0309	70-0751	"		.247	820
	MF-0310	70-0752	1/1		.229	380
	MF-0311	70-0753	"		.320	533
	EPA QC	425#4	1/20		.051	81.
	MF-0312	70-0754	1/2		.313	1042
	MF-0313	70-0755	"		.378	1261
	MF-0314	70-0756	"		.316	1052
	MF-0315	70-0757	"		.287	945
	MF-0316	70-0758	"		.304	1012
	MF-0317	70-0759	1/4		.221	1466
	EPA QC	425#4	1/20		.049	77

*Results corrected for dilutions
and blank.

PROJECT MANAGER

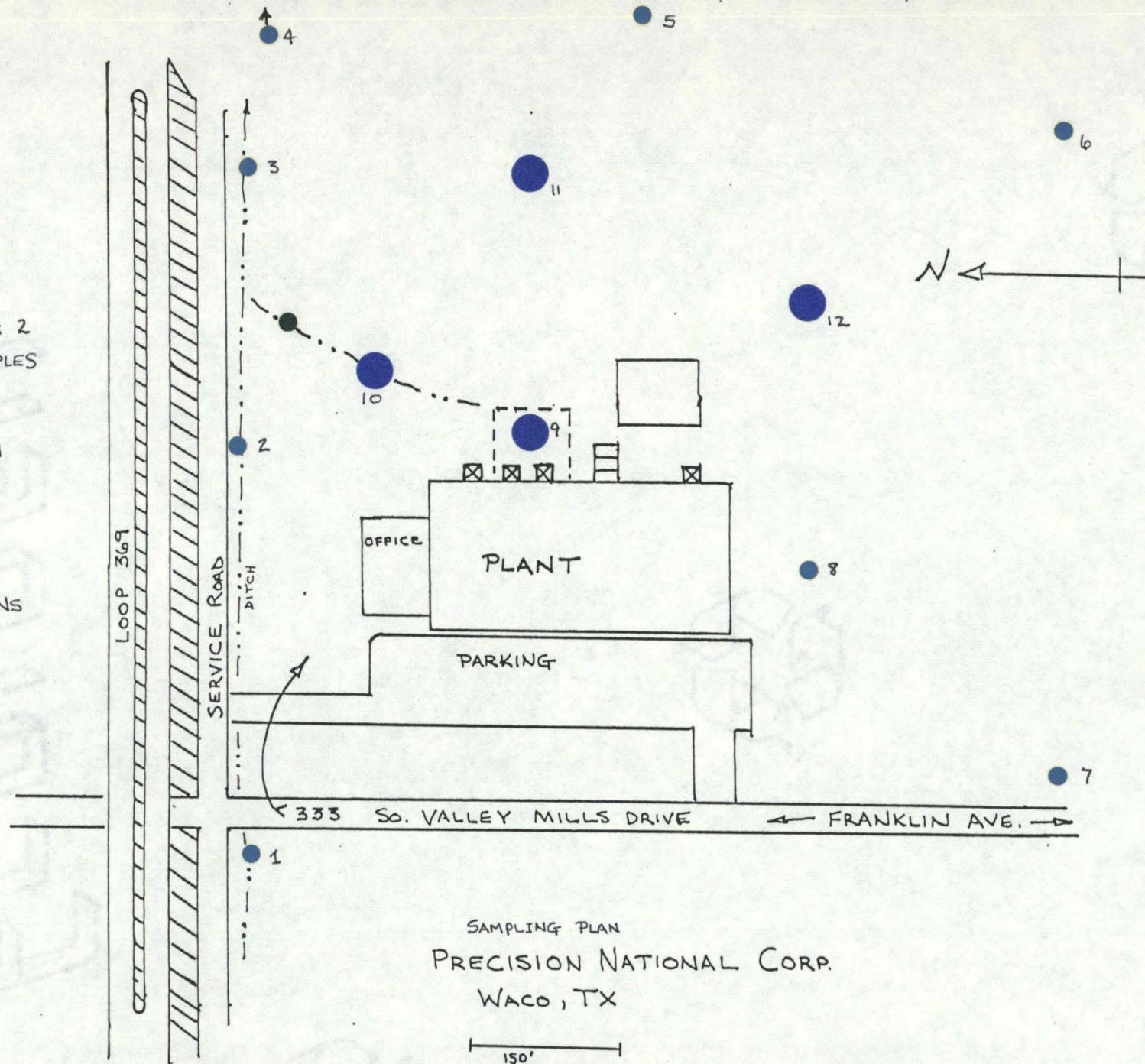
1/16 DATE

PROPOSED
SAMPLING
SCHEME

● GRAB SAMPLES
8 LOCATIONS PLUS 2
BACKGROUND SAMPLES

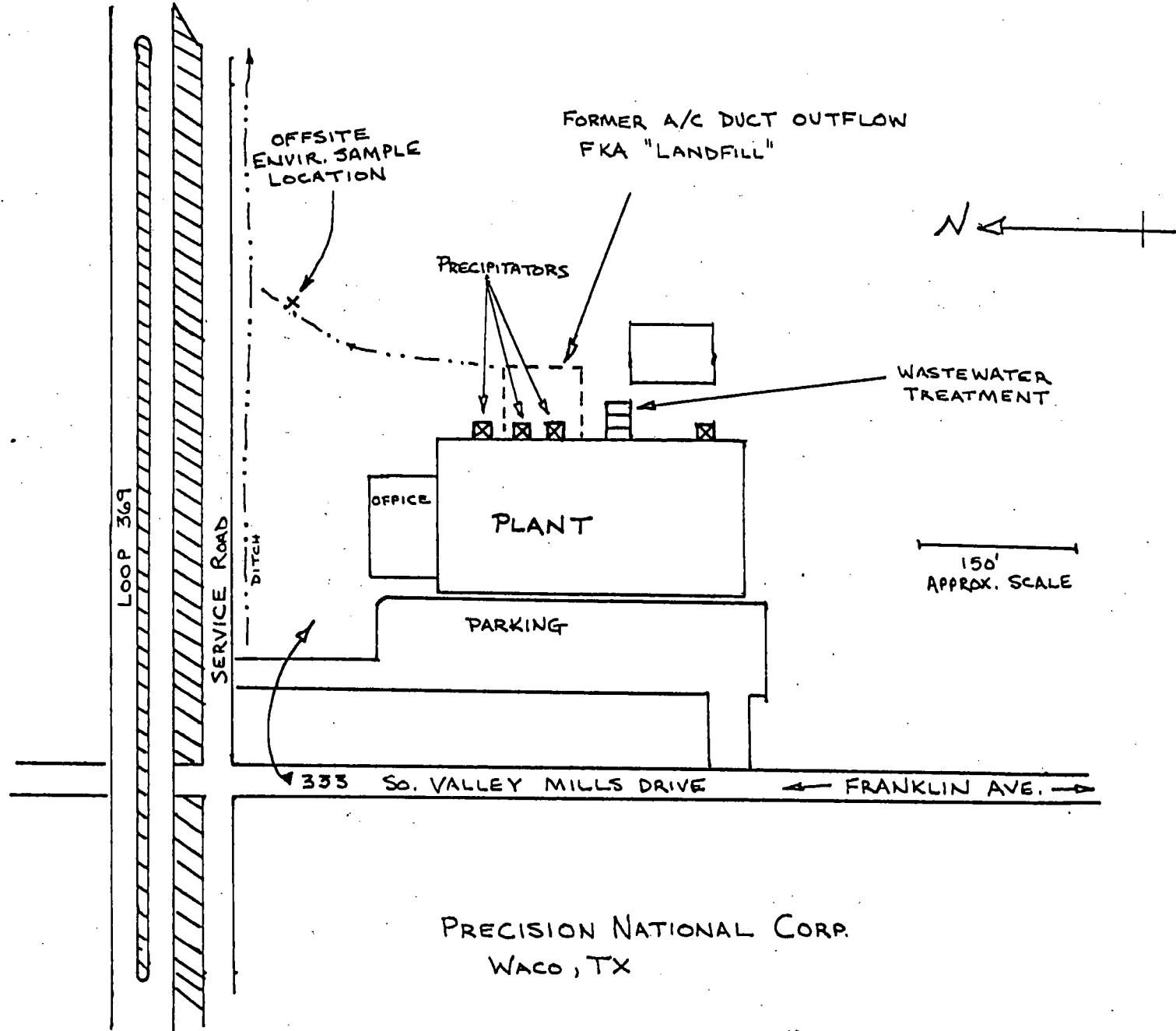
● RECON. INSPECTION
SAMPLE LOCATION

● COMPOSITE
SAMPLE LOCATIONS
(3-5 GRABS PER
COMPOSITE)



SAMPLING PLAN
PRECISION NATIONAL CORP.
WACO, TX

150'
APPROX SCALE





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI

1201 ELM STREET
DALLAS, TEXAS 75270

1-11-84

(Date)

RECEIPT FOR SAMPLESNAME AND TITLE OF EPA REPRESENTATIVE:

G. A. Gallagher

FIT, Ecology & Environment, Inc.

G.A. Gallagher
(Signature)SAMPLES COLLECTED:

SAMPLE NUMBER	TIME	PLACE COLLECTED	TYPE	VOLUME	SPLIT SAMPLE REQUESTED	SPLIT SAMPLE PROVIDED
01	0933	120' W of S Drive way 30' N. of Precision	Soil	8oz	No	
02	0944	100' W of RR Tracks 30' N. of Precision	Soil	8oz	No	
03	0954	100' W of S of Plant 70 yds. N of Precision	Soil	8oz	No	
04	1013	100' W of RR Tracks Middle W. property line 25' S of End and Ed.	Soil	8oz	No	
05	1018	off-site 8' S of Valley Mills Loop 367	Soil	8oz	No	
06	1040	off-site 70' S. SE of SE corner	Soil	8oz	No	
07	1107	of Factory Bldg. 25' S. of Valley Mills	Soil	8oz	No.	
08	1118	Rd - across from ramp 30' S. of Access Rd.	Soil	8oz	No.	
09	1218	25' W. of RR	Soil.	8oz	No	

ACKNOWLEDGEMENT OF FACILITY REPRESENTATIVE

The undersigned acknowledges that the samples described above have been collected.

NAME, TITLE AND ADDRESS OF FACILITY REPRESENTATIVE:J.D. Mathews
(Signature)

1-11-84

(Date)

DISTRIBUTION:

One copy facility representative
One copy for inspector's records
Original to Regional Office

TKD056363708

SUPERFUND FILE

JAN 21 1993

REORGANIZED
Precisional
Natl Corp.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VI
1201 ELM STREET
DALLAS, TEXAS 75202

1-11-84

(Date)

RECEIPT FOR SAMPLES

NAME AND TITLE OF EPA REPRESENTATIVE: G.A. Gallagher III

FIT- Ecology, & Environment

9.0. Dallas

(Signature)

SAMPLES COLLECTED:

ACKNOWLEDGEMENT OF FACILITY REPRESENTATIVE

The undersigned acknowledges that the samples described above have been collected.

NAME, TITLE AND ADDRESS OF FACILITY REPRESENTATIVE:

W.P. Mathews
(Signature) 1-11-84
(Date)

DISTRIBUTION: One copy facility representative
One copy for inspector's records
Original to Regional Office

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